

Erection of Precast (Cont.)

SOV/2424

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Card 5/5

GO/gmp
10-26-59

BESSER, Ya.,⁶ kand.tekhn.nauk

Automatic turning tray. Stroitel' no.10:13 0 '58. (MIRA 11:11)
(Concrete)

AUTHOR: Besser, Ya. R. Cand. Tech. Sci.; SOV/97-58-11-11/11
Sizov, V. N., Doctor of Tech. Sci., Professor.
TITLE: Book Review (Kritika i Bibliografiya)
PERIODICAL: Beton i Zhelezobeton, 1958, Nr.11, p.440 (USSR)
ABSTRACT: The following book is reviewed: A.G. Sarapin, "Production of Large-Scale Reinforced Concrete Constructions and Details Using "Stand" Method", published by Gosstroyizdat, 1958. It deals with Russian and Foreign problems of and research into the production of large precast reinforced concrete units. There is an interesting chapter compiled by the author in conjunction with operatives of the laboratory for reinforced concrete products of the Institute of Building Technique of the Academy of Architecture of USSR (Institut stroitel'noy tekhniki Akademii arkhitektury SSSR). Curing methods are criticised. In general the review is favourable.

Card 1/1

ABERGAUZ, V.D.; GAL'PERIN, M.I.; BESSER, Ya.R., kand.tekhn.nauk,
nauchnyy red.; KRYUGER, Yu.V., red.izd-va; MEL'NICHENKO, F.P.,
tekhn.red.

[Using vibrators in building] Vibrator na stroike. Izd.2-e,
perer. i dop. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i
stroit.materialam, 1958. 79 p. (MIRA 13:3)
(Vibrators)

SIZOV, Vasilii Nikolayevich, prof., doktor tekhn.nauk; BESSER, Yakov Ruvimovich, kand.tekhn.nauk; VASIL'YEV, Aleksandr Petrovich, kand.tekhn.nauk; IL'INICH, Ivan Mikhaylovich, nauchnyy red.; NIKOLAYEVA, N.M., red.izd-va; OSENKO, L.M., tekhn.red.

[Making precast reinforced-concrete construction elements in construction yards] Izgotovlenie sbornykh zhelezobetonnykh konstruktsei na poligonakh. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 250 p.

(MIRA 13:10)

(Precast concrete)

BESSER, Yakov Ruyimovich, kand. tekhn. nauk; PROSKURNIN, Valentin Petrovich, inzh.; IVYANSKIY, G.B., nauchnyy red.; TELINGATER, L.A., red. izd-va; TOKER, A.M., tekhn. red.

[Assembly of precast reinforced-concrete elements] Montazh sbornnykh zhelezobetonnykh konstruksii. Izd.2., perer. i dop. Moskva, Vses. uchebno-pedagog.izd-vo Proftekhizdat, 1961. 391 p. (MIRA 14:11)
(Precast concrete construction)

BESSER, Ya., kand.tekhn.nauk

Manufacture of large-diameter reinforced concrete rings. Stroitel'
no.6:8 Je '61. (MIRA 14:7)
(Cement—Storage) (Moscow—Reinforced concrete)

BESSER, Ya.R., kand.tekhn.nauk

Manufacturing reinforced-concrete rings for silos. Bet. i zhel.-bet.
8 no.3:130-131 Mr '62. (MIRA 15:3)
(Precast concrete construction) (Silos)

BESSER, Yu.V.

Benign neoplasms of the greater omentum in children. Vest.khir.
no.6:84-86 '62. (MIRA 15:11)

1. Iz khirurgicheskikh otdeleniy (zav. - D.B. Avidon i V.M. Solovskaya) detskoy bol'nitsy im. Raukhfusa i khirurgicheskogo otdeleniya (zav. - Yu.V. Besser) ob'yedinennoy detskoy bol'nitsy (gl. vrach - K.A. Koshevaya) Moskovskogo rayona g. Leningrada.
(OMENTUM--TUMORS)

BESSER, Yu.V.

Pyonephrosis in an 8-month-old child. Vest.khir.no.1:137-138
'63. (MIRA 16:7)

1. Iz khirurgicheskogo otdeleniya (zav. Yu.V.Besser) Ob'yedinen-
noy detskoy bol'nitzы Moskovskogo rayona Leningrada (glavnyy
vrach - K.A.Koshevaya).
(KIDNEYS--DISEASES) (INFANTS --DISEASES)

BESSER, Yu.V. (Leningrad - 102, naberezhnaya reki Volkovoi, d.3., kv.16)

Teratoma of the abdominal cavity in a 4 1/2-month-old infant.
Vest. khir..90 no.5:120-122 Ky'53 (MIRA 17:5)

1. Iz khirurgicheskogo otdeleniya (zav. - Yu.V.Besser) ob'edinennoy detskoy bol'nitsy (glavnyy vrach - N.A. Koshevaya) Moskovskogo rayona Leningrada.

L 4912-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) IJP(c) WAG

ACC NR: AP5027035

SOURCE CODE: UR/0120/65/000/005/0204/0206

AUTHORS: ⁴⁴Besshaposhnikov, A. A.; ⁴⁴Voloshin, A. Ye.; ⁴⁴Kuchuberiya, I. Kh.

ORG: ⁴⁴Physicotechnical Institute, GKAE, Sukhumi (Fiziko-tekhnicheskii institut, GKAE)

TITLE: Measurement of laser radiation energy

SOURCE: Pribery i tekhnika eksperimenta, no. 5, 1965, 204-206

TOPIC TAGS: laser radiation, laser energy, bolometer, transistorized amplifier / P13B triode

ABSTRACT: Equipment is described for measuring the energy output of pulsed lasers in the range of 0.1-10 j. The signal from a bolometer, which is used as the sensor, is supplied through a step voltage divider to the input of a four-stage transistorized amplifier with calibrated stable amplification. Low-noise transistors are used in the first two stages. The gain of the amplifier at 1 kc is 2800; the frequency response is flat (within 3 db) in the range of 50 cps to 20 kc; and the amplitude response is linear over 20 db. The output is recorded on an ^{25, 1/4}

Card 1/2

UDC: 621.317.794.621.378.325

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L 4912-66

ACG NR: AP5027035

oscilloscope whose sweep is triggered by the firing circuit of the laser pumping lamps. The bolometer, amplifier, and stabilized power supply are mounted in a sectioned metal container. Orig. art. has: 5 formulas and 7 figures. [04]

SUB CODE: EC/ SUBM DATE: 10Aug64/ ORIG REF: 004/ OTH REF: .006

ATD PRESS: 4135

Card 2/2

L 02278-67 EWT(1) IJP(c) AT

ACC NR: AP6025246

SOURCE CODE: UR/0057/66/036/007/1211/1214

74
72
B

AUTHOR: Besshaposhnikov, A.A.; Doroshenko, A.N.; Simonova, N.W.; Chelidze, T.Ye.

ORG: none

TITLE: Observation of "curved" spectrum lines in a pulsed high frequency plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 7, 1211-1214

21

TOPIC TAGS: hydrogen plasma, rotating plasma, plasma velocity, ion concentration, ion temperature, magnetic mirror, optic spectrum

ABSTRACT: The authors have spectroscopically observed the rotational velocities and the radial distributions and temperatures of impurity O^+ and Si^{++} ions in hydrogen plasma filaments. The plasmas were produced by a 1.5 MHz pulsed rotating dipole field in a 6.5 cm diameter 1 meter long glass tube containing hydrogen at from 0.02 to 0.25 mm Hg and were confined by a magnetic mirror system with a mirror ratio of 1.57 and a field strength in the uniform field region of 7.2 kOe. Additional stabilization was provided by an up to 216 cusped octupole field corresponding to a diameter of 2 cm. Two conditions of operation were distinguished: "direct rotation", in which the forces on the particles due to interaction of the high frequency currents in the plasma with the quasistatic field were directed toward the axis of the chamber, and "reverse rotation", in which those forces were directed toward the wall of the chamber. The OII 4649 Å and SiIII 4552 Å lines were observed with a spectrometer having a dispersion

Card 1/2

UDC: 533.9.07

L 02278-67

ACC NR: AP6025246

of 4 Å/mm and a resolution of 0.1 Å. The lines were very weak and were recorded with the aid of a multistage electron-optical image converter. The radial distributions of the ion concentrations were determined (in arbitrary units) from the relative intensities of the portions of the lines arising from different parts of the plasma filament, the radial distribution of the rotational velocity was determined from the Doppler shifts of different parts of the lines, and the temperatures of the impurity ions were also determined, presumably from the Doppler broadening. In direct rotation the impurity ion concentration decreased more or less monotonically from the axis to the periphery of the plasma filament; in reverse rotation the ion concentration increased with increasing distance from the axis, passed through a maximum, and then decreased toward the periphery. The rotational velocity was also maximum at some distance from the axis. The rotational velocity was of the order of 10^6 cm/sec at about 1 cm from the axis. The direct rotational velocities decreased with increasing octupole field strength, and the reverse rotational velocities increased with increase of the octupole field strength up to about 144 Oe and decreased with further increase of the octupole field strength. With increasing octupole field strength, the ion temperature decreased in direct rotation and increased in reverse rotation. Ion temperatures up to 20 (units not stated) were observed. The authors thank R.A. Demirkhanov and T.I. Gutkin for suggesting the problem and for their interest in the work. Orig. art. has: 5 figures and 1 table.

SUB CODE: 20

SUBM DATE: 02Aug65

ORIG. REF: 002

OTH REF: 004

Card 2/2 vmb

BESSHTANOV, A.I.; NYURENBERG, G.Ye.; DASHKIN, P.M.; KOROSOV, M.A.;
KRAVTSOV, I.M.

Improving the performance of electrolytic cells as a result
of an efficient positioning of auxiliary lifting mechanisms
and anode pins. TSvet. met. 38 no.8:87-89 Ag '65.

(MIRA 184)

L 32622-66 FBD/EWT(1)/EEC(k)-2/ETC(f)/I/EWP(k) IJP(c) WG/AT
 ACC NR: AP6015598 SOURCE CODE: UR/0368/66/004/005/0458/0459
 AUTHOR: Besshaposhnikov, A. A.; Voloshin, A. Ye.; Kuchuberiya, I. Kh.; Simonova, N.V.
 ORG: none
 TITLE: Measurement of electron temperature of a plasma by means of scattered laser radiation
 SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 5, 1966, 458-459
 TOPIC TAGS: laser application, plasma electron, electron temperature, LASER RADIATION, LASER BEAM
 ABSTRACT: The authors used a laser beam to measure the electron temperature in a setup in which the plasma was produced by a rotating high-frequency dipole at 2.45 Mc in a quasistationary field of mirror configuration. The vacuum chamber was a glass tube 50 mm in dia. and 1000 mm long (Fig. 1). The spectrum of the plotted radiation was measured point by point and the electron temperature was calculated from the smoothed spectrum and found to be $T_e \approx 4$ ev. From the presence of a shift in the scattered radiation relative to the incident radiation it is deduced that the electrons move axially with velocity $\sim 10^8$ cm/sec. The reason for this phenomenon, and also the details of the fine structure of the scattered radiation, are still unclear. The authors thank R. A. Demirkhanov for suggesting the investigation and for continuous interest. Orig. art. has: 2 figures.

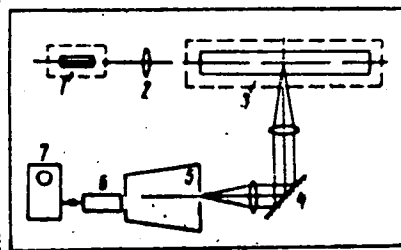
Card 1/2

UDC: 533.9.07

L 32622-66

ACC NR: AP6015598

Fig. 1. Block diagram of the measurement apparatus. 1 - Ruby laser, 2 - lens, 3 - vacuum chamber, 4 - optical focusing system, 5 - spectrograph, 6 - photomultiplier, 7 - oscilloscope.



SUB CODE: 20/ SUBM DATE: 12 Jul 65/ OTH REF: 004

Cord

2/2 50

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV,
S.S., kand. tekhn. nauk.; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye., inzh.;
BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY,
I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY,
I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY,
L.K., inzh.; VRUBLEVSKIY, A.A., inzh.; GERSHMAN, S.G., inzh.;
GOLUBYATNIKOV, G.A., inzh.; GORLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.;
DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.;
DROZDOV, P.F., kand. tekhn. nauk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO,
V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk.; KORETSKIY, M.M., inzh.;
KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.;
MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.;
PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk.; PINSKIY,
Ye.A., inzh.; POMLUBNYI, S.A., inzh.; PORAZHENKO, F.F., inzh.; PUZANOV,
I.G., inzh.; REDIN, I.P., inzh.; REZNIK, I.S., kand. tekhn. nauk.;
ROGOVSKIY, L.V., inzh.; RUDERMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.;
SADOVNIKOV, I.S., inzh.; SEVER'YANOV, N.N., kand. tekhn. nauk.; SEMESHKO,
A.T., inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N., inzh.; TROFIMOV,
V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN,
M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN,
M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.;
STANCHENKO, I.K., otv. red.; LISHIN, G.L., inzh., red.; KRAVTSOV, Ye.P.,
inzh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY,
I.P., red.; LEYTMAN, L.Z., red. [deceased]; GUREVICH, M.S., inzh., red.;
DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV,
S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk., red.; LISTOPADOV,
N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased];
(continued on next card)

AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, N.I., inzh., red.; ROZENBERG, B.M., inzh., red.; SLAVIN, D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.; SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoe delo; entsiklopedicheski spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol. 3. [Organization of planning; Construction of surface buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo zdani i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)
(Mining engineering)
(Building)

BESSKIY, K.A.; MARCHEVSKIY, M.M.

Inspection-competition for the best system of information work
in construction organizations and the building materials industry
of the Ukraine. NTI no.4:22 '65. (MIRA 18:6)

1. Glavnyy spetsialist Upravleniya tekhnicheskoy informatsii
Sostroya UkrSSR (for Besskiy). 2. Glavnyy spetsialist Sektora
tekhnicheskoy informatsii KiyevZNIIEP (for Marchevskiy).

KAN, S.V.; OLEVSKIY, V.M.; RUCHINSKIY, V.R.; KOCHERGIN, N.A.; BESSMERTNAYA,
A.I.

Studying mass transfer and liquid distribution in a tower with
plane-parallel packing. Khim. prom. 41 no.10:770-773 O '65.
(MIRA 18:11)

L 10971-66 EWT(1)/EWA(1)/EWA(b)-2 JK

ACC NR: AP5028396

SOURCE CODE: UR/0016/65/000/009/0078/0081

AUTHOR: Zemel'man, B. M.; Bessmertnaya, F.S.

ORG: Dagestan Anti plague Station (Dagestanskaya protivochumnaya stantsiya)

TITLE: Immunological reorganization in persons repeatedly vaccinated against brucellosis at foci of infection

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 9, 1965, 78-81

TOPIC TAGS: infective disease, disease incidence, immunology

ABSTRACT: The authors had two groups of people under observation who worked under different epizootological conditions; they studied the effect produced by repeated vaccination on sensitization. The number and degree of evidence of positive reactions to brucellosis in the vaccinated persons are mainly determined by the massiveness of the foci of infection in which they work. It is very doubtful that repeated vaccination can cause hypersensitization in people, but in all probability it can intensify, in vaccinated persons, a state of hypersensitization which arises when they are repeatedly infected when working in a focus of infection. The authors use the data obtained as grounds to conclude that persons with positive immunological reactions to brucellosis should be excluded from vaccination. Orig. art. has: 2 tables.

SUB CODE: 06 / SUBM DATE: 07Sep64 / ORIG REF: 013

UDC: 616.981.42.097.3

KUTLOVSKAYA, A.Ye., inzh.; BESSMERTNAYA, G.D., inzh.

Using volatile inhibitors as anti-corrosives for metals. Za
indus.Riaz. no.2:53-54 D '61. (MIRA 16:10)

1. TSentral'naya zavodskaya laboratoriya Ryazanskogo stankostroitel'nogo
zavoda.

LIVYY, G.V.; KAZARINA, N.N.; GIL'MAN, B.A.; RUDENKO, S.D.; DREVINA, N.G.;
~~RESHETNAYA~~, N.S.; ALPASKAYA, V.P.; KOZLOVSKIY, S.I.;
SLYUNIN, B.S.

Development and application of reinforced film coating of sheepskins
for coats. Kozh.-obuv.prom. 4 no.3:25-28 Mr '62. (MIRA 15:5)
(~~Fur~~-Dressing and dyeing)

BESSMERTNAYA, R.Ye.

Benthos of a pond in the vicinity of the village of Tashkepri in
the Murgab Valley. Izv. AN Turk.SSR.Ser.biol.nauk no.1:61-69 '65.
(MIRA 18:5)

1. Institut zoologii i parazitologii AN Turkmenokoy SSR.

ALEKSEYEV, V.A.; BELAN, V.G.; BESSMERTNEY, I.I.; BOZHKO, Ye.I.;
VASIL'YEV, N.A.

Effect of the curing conditions of samples on the mechanical
properties of concrete made with naturally burned clays.
Trudy TASHIT no.18:72-77 '61. (MIRA 18:3)

BESSMERTNOV, M.A.; VINNIK, V.A.; MATVEYEV, I.V.; SAZANOV, A.A.

Results of visual observations of variable stars according to the
program of the Kuybyshev Astronomical Observatory. Per.zvezdy 12
no.5:353-357 N '58. (MIRA 13:9)

1. Kuybyshevskaya astronomicheskaya observatoriya Vsesoyuznogo
astronomo-geodezicheskogo obshchestva:
(Stars, Variable)

BESSMERTNOV, M.A.; MATVEYEV, I.V.; SAZANOV, A.A.

Results of variable star observations according to the
program of the Kuybyshev Astronomical Observatory. Per.
zvezdy 14 no.2:104-108 Je '62. (MIRA 17:2)

BESSMERTNYKH, A.A., starshiy veterinarnyy vrach

Eradication of hog cholera is an urgent task. Veterinariia 37
no.10:12-15 0 '60. (MIRA 15:4)

1. Upravleniye veterinarii Ministerstva sel'skogo khozyaystva
RSFSR.

(Hog cholera)

2

~~16(1)~~ 16.4600

66398

AUTHOR: Bessmertnykh, G.A.

SOV/20-128-6-2/63

TITLE: A Simultaneous Finding of Two Characteristic Numbers of a Self-Adjoined Operator

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1106-1109 (USSR)

ABSTRACT: Let A be a bounded selfadjoined positively defined operator in the real Hilbert space H ; let M and m be the least upper bound and the greatest lower bound of the spectrum of A ; let m be isolated; let m_1 be the least number of the spectrum being greater than m . For the determination of m M.A.Krasnosel'skiy [Ref 1] proposed the following method of iteration

$$(1) \quad x_{k+1} = x_k - 2\tilde{\gamma}_k \Delta_k$$

where

$$(2) \quad \Delta_k = Ax_k - \mu_k x_k,$$

$$(3) \quad \mu_k = \frac{(Ax_k, x_k)}{(x_k, x_k)}$$

$$(4) \quad \tilde{\gamma}_k = \frac{(\Delta_k, \Delta_k)}{(A\Delta_k, \Delta_k)}.$$

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66398

A Simultaneous Finding of Two Characteristic Numbers SOV/20-128-6-2/63
of a Self-Adjoined Operator

Under certain assumptions the sequence λ_k converges to m . The sequence $\{y_k\}$ converges to y with respect to the direction if

$$\lim_{k \rightarrow \infty} \sin^2(y_k, y) = \lim_{k \rightarrow \infty} \left[1 - \frac{(y_k, y)^2}{\|y_k\|^2 \|y\|^2} \right] = 0.$$

Theorem 1: Let m and m_1 be isolated points of the spectrum of A . Let

$$(5) \quad m > \frac{M}{2}$$

and let x_0 be not orthogonal to the invariant subspaces L_m and L_{m_1} of A . Then the sequence $\bar{\Delta}_k = \Delta_k / \|\Delta_k\|$ converges with respect to the direction to a vector of L_{m_1} and the sequence $1/\delta_k$ converges to m_1 .

Theorem 2 considers the case

$$(6) \quad m < \frac{m_1}{2}$$

✓

Card 2/3

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3

A Simultaneous Finding of Two Characteristic Numbers of a Self-Adjoined Operator SOV/20-128-6-2/63

and shows under certain assumptions on x_0 that Δ_k converges with respect to the direction to an eigenvector of L_M and $1/r_k$ converges to the M assumed to be isolated. Theorem 3 shows that if neither (5) nor (6) is valid, then in general the sequence Δ_k diverges.

Finally the convergence of (1) - (4) is accelerated with the aid of a method of L.A.Lyusternik [Ref 3] (Theorem 4). The author thanks M.A.Krasnosel'skiy and B.P.Pugachev for advices. There are 4 Soviet references.

ASSOCIATION: Voronezhskiy gosudarstvennyy pedagogicheskiy institut (Voronezh State Pedagogical Institute)

PRESENTED: June 16, 1959, by S.L.Sobolev, Academician

SUBMITTED: June 11, 1959

4

Card 3/3

68964

S/020/60/131/02/002/071

16(1) 16.4600

AUTHOR: Bessmertnykh, G.A.

TITLE: Two Methods for the Approximate Solution of Operator Equations in the Hilbert Space

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 226-229 (USSR)

ABSTRACT: The author considers the equation

$$(1) \quad Ay = b,$$

where A is a linear selfadjoint positiv-definite bounded operator in the real Hilbert space H; b is the given element of H and y is the sought element of H. Let y^* be the rigorous solution of (1). Let y_0 be an arbitrary element of H and

$$(2) \quad y_{k+1} = y_k - \frac{2}{\gamma_k + 2\mu_k} x_k,$$

where

$$(3) \quad x_k = Ay_k - b, \quad \mu_k = \frac{(Ax_k, x_k)}{(x_k, x_k)}, \quad \gamma_k = \frac{(A\Delta_k, \Delta_k)}{(\Delta_k, \Delta_k)},$$

$$\Delta_k = Ax_k - \mu_k x_k, \quad \|\Delta_k\| \neq 0.$$

Card 1/3

68964

Two Methods for the Approximate Solution of Operator Equations in the Hilbert Space S/020/60/131/02/002/071

Theorem 1: The sequence $\{y_k\}$ defined by (2)-(3) converges (according to the norm of H) to the solution y^* of (1).
Theorem 3: To every $\varepsilon > 0$ there exists a number k_0 so that for all $p > 0$ it holds

$$\|y_{k_0+p} - y^*\| \leq (q + \varepsilon)^p \|y_{k_0} - y^*\|,$$

where $q = \frac{M}{M+2m}$ and M, m are the least upper and greatest lower bound of the spectrum of A ($0 < m \leq M$).

It is shown that under certain assumptions it holds

$$\lim_{k \rightarrow \infty} \mu_k = m, \quad \lim_{k \rightarrow \infty} \gamma_k = M.$$

As a second method for the solution of (1) it is proposed:

$$(12) \quad y_{k+1} = y_k - \frac{1}{\gamma_k + \mu_k} x_k,$$

where γ_k, μ_k, x_k are explained by (3).

Card 2/3

68964

Two Methods for the Approximate Solution of Operator Equations in the Hilbert Space S/020/60/131/02/002/071

Theorem 5: The process (12), (3) converges to y^* with the velocity of a geometrical series.

It holds the same estimation as in theorem 3, but $q = \frac{M}{M+m}$.

The author mentions B.P. Pugachev, he thanks M.A. Krasnosel'skiy for aid.

ASSOCIATION: Voronezhskiy gosudarstvennyy pedagogicheskiy institut
(Voronezh State Pedagogical Institute)

PRESENTED: November 21, 1959, by S.L. Sobolev, Academician

SUBMITTED: November 21, 1959

X

Card 3/3

BESSMERTNYKH, G.A.

Behavior of corrections in some methods for an approximate calculation
of the spectrum boundaries of a self-adjoint operator. Dokl. AN
SSSR 136 no.6:1265-1268 F '61. (MIRA 14:3)

1. Voronezhskiy gosudarstvennyy universitet. Predstavleno
akademikom G. I. Petrovym.

(Operators(Mathematics))

BESSMERTNYKH, G.A.; LEVIN, A.Yu.

Some evaluations of differentiable functions of a single variable.
Dokl.AN SSSR 144 no.3:471-474 My '62. (MIRA 15:5)

1. Voronezhskiy gosudarstvennyy universitet. Predstavleno
akademikom S.L.Sobolevym.
(Functions)

BESSMERTNYKH, G.A.

Some remarks on the existence of a solution to singular systems
of ordinary differential equations. Pribl.metod.resch.diff.urav.
no.2:23-32 '64. (MIRA 18:4)

BESSMERTNYY, A.S., gornyy inzh.

Deformation of the hoisting shaft lining in the "Tsentral'naya-
Pervomaiskaya" mine. Ugol' Ukr. 5 no.1:37-38 Ja '61.

(Donets Basin—Mine hoisting)

(MIRA 14:1)
(Mine timbering)

HEYMAN, M.G.; GRISHKEVICH, A.P.; ~~BESSMERTNIY, A.S.~~, redaktor; RODCHENKO,
N.I., tekhnicheskiiy redaktor

[Trade and technical schools of Leningrad; a manual for entrants
in the 1956 school year] Tekhnicheskije uchilishcha i tekhnikumy
Leningrada; spravochnik dlia postupaiushchikh v 1956 godu.

[Leningrad] Lenizdat, 1956. 164 p.

(MLRA 9:10)

(Leningrad--Technical education)

~~BESSMERTNYI, A.S.~~; SLOBOZHAN, I.I., redaktor; SMIRNOV, P.S., tekhnicheskii
redaktor

[Leningrad; a concise reference manual] Leningrad; kratkii spravochnik.
[Leningrad] Lenizdat, 1957. 286 p. (MLRA 10:9)
(Leningrad--Directories)

BESSMERTNYY, A.S., red.; ONOSHKO, N.G., tekhn.red.

[Power machinery manufacture in Leningrad during 1959-1965]
Energomashinostroenie Leningrada v 1959-1965 gg. Lenizdat,
1958. 19 p. (MIRA 12:6)
(Leningrad--Machinery industry)

VITRIK, D.I., red.; BESSMERTNYI, A.S., red.; DOROSHENKO, G.N., red.;
ZELINSKIY, V.M., red.; KORDENOV, B.G., red.; SLAVUTSKIY, S.M.,
red.; SHISHOV, Ye.L., red.; SHKABARA, M.N., doktor geolog.-
mineral.nauk, red.; VOLOVICH, M.Z., red.izd-va; BEREZSLAVSKAYA,
L.Sh., tekhn.red.; NADZINSKAYA, A.A., tekhn.red.

[Studies in mine construction] Issledovaniia po shakhtnomy
stroitel'stvu. Moskva, Ugletekhizdat, 1958. 213 p. (MIRA 12:3)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut
organizatsii shakhtnogo stroitel'stva.
(Mining engineering)

SMIRNOV, Vladimir Nikolayevich; BESSMERTNYI, A.S., red.; TIKHONOVA, I.M.,
tekhn.red.

[Young Leningraders work for the fatherland] Molodye leningradtsy -
Rodine. Leningrad, Lenizdat, 1959. 128 p. (MIRA 13:4)

1. Sekretar' Leningradskogo gorkoma Vsesoyuznogo Leninskogo Kommunisti-
cheskogo soyuza molodezhi (for Smirnov).
(Leningrad--Labor and laboring classes)

PREDTECHENSKIY, A.V.; GOLANT, V.Ya.; ~~HESSMERTNYI, A.S., red.~~; LEVO-
NEVSKAYA, L.G., tekhn.red.

[The cradle of Russian science; historical studies on the
scientific institutions of the Strelka, Vasil'yevskiy Island
in Leningrad] Kulybel' russkoi nauki; istoricheskii ocherk
o nauchnykh uchrezhdeniyakh Strelki Vasil'yevskogo ostrova v
Leningrade. Leningrad, Lenizdat, 1959. 253 p. (MIRA 13:5)
(Leningrad--Science)

GUBIN, Petr Artemovich; BESSMERTNYI, A.S., red.; TIKHONOVA, I.M., tekhn.
red.

[Leningrad Planetarium; brief guide] Leningradskii planetarii;
kratkii putevoditel'. Leningrad, Lenizdat, 1961. 80 p.
(MIRA 14:9)

(Leningrad--Planetaria)

BOGDANOV, NGG.; NOSKOVA, V.N.; BESSMERTNYI, A.S., red.; SHERMUSHENKO, T.A.,
tekhn. red.

[Leningrad and Leningrad Province] Leningrad i Leningradskaia
oblast'; kratkii spravochnik. Leningrad, Lenizdat, 1961. 127 p.
(MIRA 14:10)

(Leningrad Province—Description and travel)

BESSMERTNYY, A.S.; YEL'YASHKEVICH, M.L.[translator]; VISHNYA, L.P.,
red.; LEVONEVSKAYA, L.G., tekhn. red.; PRESNOVA, V.A.,
tekhn. red.

Leningrad; sputnik turista. Ukazatel' k karte. A short
guide. Explanatory index to the map. Leningrad. Lenizdat,
1963. 410 p. (MIRA 16:12)
(Leningrad--Guidebooks)

OSTROVSKIY, I.I., inzh., red.; FEDOROV, A.M., inzh., red.;
BESSMERTNYI, A.S., inzh., red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.B. Ch.9. [Mining engineering by mining enterprises; regulations concerning the carrying out of work and the acceptance of completed work] Podzemnye gornye vyrabotki predpriatii po dobyche poleznykh iskopaemykh; pravila proizvodstva i priemki rabot (SNiP III-B.9-62). 1963. 30 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Ostrovskiy). 3. Mezhdomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Fedorov). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Bessmertnyy).

BESSMERTNYY, A.Ye., inzh.

Results of the operation of rail motor cars on the Southern
Sakhalin Railroad. Zhel.dor.transp. 43 no.6:67-68 Je '61.
(MIRA 14:7)

1. Nachal'nik sluzhby tyagi i podvizhnogo sostava Yuzhno-
Sakhalinskoy dorogi.

(Railroad motorcars)

BESSMERTNIY, E. S.,

"Nikolay Fedorovich Gamaleya and a Half Century of Russian Microbiology,"
Gigiyena i sanitariya (Hygiene and Sanitation), 5, 61-62, 1940

BESSMERTNYI, B. S.

PA 20T36

USSR/Medicine - Public Health
Medicine - Epidemiology

Jun/Jul 1947

"Calculating Incidences of Disease in a Population
of Variable Size," B. S. Bessmertnyy (Moscow), 3 pp

"Sovetskoye Zdravookhraneniye" No 5

Gives four statistical tables of disease incidences
in proportion to population for various months of
the year in an unnamed town. Gives formula for
computing the disease factor.

20T36

BESSMERTNYY, B. S.

PA 20T29

USSR/Medicine - Epidemiology
Medicine - Communicable Diseases

Jun 1947

"Epidemiological Investigation of the Seat of Infectious Diseases," B. S. Besmertnyy, A. L. Nikol'skiy, 4 pp

"Fel'dsher 1 Akusherka" No 6

Destruction of sources of infectious diseases is the most important factor in anti-epidemiological work. Consists of discovering the factors leading to the outbreak of the disease and of discovering the means by which the outbreak was stopped.

20T29

BESSMERTNYY, Boris Semenovich

"Reply to Professor Ye. E. Den, " Sov. Zdrav., No 2, 1948

BESSMERTNYY, Boris Semenovich

"Professor of Surgery, A.A. Bobrov (1850-1904),"
Med Sestra No. 5, 1948

BEESMERTNYY, Boris Semenovich

"The Origin and Significance of the Medical Emblem,"
Med. Sestra No., 2, 1948 Fel'der and Akusherka

BESS'ERTNYY, Boris Semenovich

"The Great Russian Scholar, I.P. Pavlov, 1849-1936,"
Med. Sestra, No. 2, 1948
(Fel'der and Akusherka)

BESSMERTNYY, Boris Semenovich

"Concerning the Terms 'Fel'der and Akusherka',"
No. 2, 1948 Fel'der and Akusherka

BESSMERTNYY, Boris Semenovich

"Epidemy of Scarlet Fever in Taganrog in 1828," Sov. Med., No 3, 1943

(Dept. of Genl Epidemiol Inst of Microbiol, Epidemiol
and Infectious Diseases, Acad. Med Sci USSR 1948)

BESSMERTNYY, Boris Semenovich

"Coryphaeus of Russian Psychiatry, Professor S.S. Korsakov,"
Med. Sestra, No 4, 1949

BESSMERTNYY, Boris Semenovich

"Regional Statistics of Acute Infectious Diseases,"
Fel'der i Akusher No. 6, 1949

BESSMERTNYY, B. S.

20102 BESSMERTNYY, B. S. Statistika ostrykh infektsionnykh zabolebanny v rayone. Fel'dsher i aksherka, 1949, No. 6, s. 13-16.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

BESSMERTNYI, B. S.

"The Founder of Virus Science, D. I. Ivanovskiy; on the Thirtieth Anniversary of His Death", Arkhiv Patologii, Issue No. 6, pp 59-61, 1950.

BESSMERTNYI, B.S.

V.K.Vysokovich as epidemiologist. Zhur.mikrobiol.epid.i immun.
no.1:61-66 Ja '54. (MLRA 7:2)

1. Iz otdela epidemiologii (zaveduyushchiy - professor I.I. Yelkin) i kabineta mikrobiologii (zaveduyushchiy Yu.I.Milenushkin) Instituta epidemiologii i mikrobiologii im. pochetnogo akademika N.F.Gamalei Akademii meditsinskikh nauk SSSR (direktor - professor V.D.Timakov).
(Vysokovich, Vladimir Konstantinovich, 1854-1912)

BESSMERTNYI, B.S.

~~S.P.Botkin~~ "Epidemiologicheskie listki." Zhur. mikrobiol. epid.
i immun. no.10:108-113 O '54. (MLRA 8:1)

1. Iz otdela epidemiologii (sav. prof. I.I.Elkin) i kabineta istorii
mikrobiologii (sav. Yu.I.Milenushkin) Instituta mikrobiologii i
epidemiologii imeni pochetnogo akademika N.F.Gamalei AMN SSSR (dir.
prof. V.D.Timakov)

(PERIODICALS.

Epidemiologicheskie listki)
(BOTKIN, SERGEI PETROVICH, 1852-1889)

BESSMERTNYI, P. S.

"Epidemiological Notes of S. P. Botkin"
"V. K. Vysokovich as an Epidemiologist."
Proceedings of Inst. Epidem. and Microbiol. im. Gamaleya.
1954-56.

Division of Epidemiology. Yelkin, I. I., head. Inst. Epidem.
and Microbiol. im. Gamaleya. AMS USSR.

SO: Sum 1186. 11 Jan 57.

BESSMENTHIY, R. S., KAGAN, G. Ya., and MIRULINSKIYA, Ye. Ya.

"Statistical Methods in Experimental Investigations in the Fields of Microbiology and Immunology. Question of Variations in the Size of Lethal Doses Under Experimental Conditions." Proceedings of Inst. Epidem. and Microbiol. im. Gamaleya. 1954-56.

Division of Epidemiology, Yelkin. I. I., head., Inst. Epidem. and Microbiol. im. Gamaleya, AMS USSR.

SO: Sum 1186. 11 Jan 57.

BESSMERTNYY, B.S.; KAGAN, G.Ya.; MIKULINSKAYA, Ye.Ya.

Statistical method in experimental research in the field of microbiology and immunology; size variation of the lethal dosage in experimentation. Zhur. mikrobiol. epid. i immun. 27 no.2: 91-96 P'56. (MLRA 9:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

(MICROBIOLOGY, statist.
method in tixicity & lethal dosage determ.)
(IMMUNOLOGY
same)

BESSMERTNYI, B. S.

USSR / Microbiology - Microbes Pathogenic to Humans and Animals F-4

Abs Jour: Referat. Zh. Biol., No. 1, 1958, 699

Author : Bessmertnyy, B.S.

Title : Statistical Methods in Experimental Studies in the Fields of Microbiology and Immunology.
Communication 2. Determination of Average Lethal Dose By the Method of Rid and Mench and Adjustment of Numerous Empirical Indices of Lethality.

Orig Pub: Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No. 5, 120-125

Abstract: No abstract.

Card 1/1

~~BESSMERDNYK~~

Some data on the epidemiology and prevention of plague on the
African and American continents; 1939--53. Zhur.mikrobiol.epid. i
immun. 28 no.6:137-141 Ja '57. (MIRA 10:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR.

(PLAGUE,
epidemiol. & prev. on African & American continents (Rus))

USSR / Microbiology. Microorganisms Pathogenic to Humans and
Animals.

F-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90898

Author : Bessmertnyy, B. S.

Inst : Not given

Title : Statistical Method in Experimental Investigations in the
Field of Microbiology and Immunology. Communication III.
Application of the Principle of Bona Fide Boundaries in
Statistical Control of Experimental Data

Orig Pub : Zh. mikrobiol., epidemiol. i immunobiol., 1958, No 2, 82-87

Abstract : No abstract given
(For Communications I and II, see ibid, 1956, No 2,
91-96; 1957, No 5, 120-125)

Card 1/1

Country : USSR
Category : Microbiology. Microbes Pathogenic For Man and Animals.
General Problems.
Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 103794
Author : Boldyrev, T. Ye.; Bessmertnyy, P.S.; Shatrov I.I.; Tyrkova, Ye.S.
Institut. : --
Title : Interrelations of Social and Biological Factors in the
Epidemic Process
Orig. Pub. : Zh. mikrobiol., epidemiol. i immunobiol., 1958, No 6,
112-117
Abstract : No abstract.

Card: 1/1

F-40

BOLDYREV, T.Ye.; SHATROV, I.I.; ANAN'IN, V.V.; BESSMERTNYI, B.S.; OLSUF'YEV, N.G.;
FAVOROVA, L.A.; MITEL'MAN, S.L.; OSADCHIYEVA, A.L.

"Epidemiology," edited by G.IA.Zmeev. Reviewed by T.E.Boldyrev
and others. Zhur.mikrobiol.epid. i immun. 30 no.4:134-138
Ap '59. (MIRA 12:6)

(EPIDEMIOLOGY) (ZMEEV, G.IA.)

~~BESSMERTNYI, B.S.; AKATOV, A.K.~~

Statistical method in experimental studies in the field of microbiology and immunology. Report No.4: Transformation of experimental data using the probability method. Zhur. mikrobiol.epid. i immun. 30 no.5:106-110 My '59.

(MIRA 12:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AN SSSR.

(MICROBIOLOGY,

statist. conversion of exper. data by probability method (Rus))

(IMMUNOLOGY,

same)

BESSMERTNYI, Boris Semenovitch; TKACHEVA, Marta Nikolayevna; MERKOV,
A.M., prof., red.; ZAKHAROVA, A.I., tekhn. red.

[Statistical methods in epidemiology] Statisticheskie me-
tody v epidemiologii. Pod red. A.M.Merkova. Moskva, Medgiz,
1961. 202 p. (MIRA 15:4)

(EPIDEMIOLOGY—STATISTICS)

BESSMERTNYI, Boris Semenovich; KHEYFETS, Leonid Borisovich;
SHVARTSMAN, L.A., red.; BASHMAKOV, G.M., tekhn. red.

[Evaluation of the effectiveness of measures on the prevention of infectious diseases; theory, statistics, organizational problems] Otsenka effektivnosti meropriyatii po profilaktike infektsionnykh boleznei; teoriia, statistika, organizatsionnye voprosy. Moskva, Medgiz, 1963. 201 p.
(NIRA 17:3)

ALEKSANYAN, A.B., prof.; BEZDENEZHNYKH I.S., doktor med. nauk;
BELYAKOV, V.D., doktor med. nauk; BESSMERTNYY, B.S., dokt.
med. nauk; VASHKOV, V.I., prof.; GROMASHEVSKIY, L.V.,
prof.; YELKIN, I.I., prof.; ZHDANOV, V.M., prof.;
ZHMAYEVA, Z.M., kand. biol. nauk; KOVARSKIY, M.S., kand.
med. nauk; NABOKOV, V.A., prof.; NOVOCORODSKAYA, E.M.,
prof.; PAVLOVSKIY, Ye.N., akademik; PETRISHCHEVA, P.A.,
prof.; PERVOMAYSKIY, G.S., prof.; POGODINA, L.N.; ROGOZIN,
I.I., prof.; SUKHOVA, M.N., doktor biol. nauk; CHASOVNIKOV,
A.A., kand. med. nauk; SHATROV, I.I., prof.; SHURABURA,
B.L., prof.; YASHKUL', V.K., kand. med. nauk;
ZHUKOV-VEREZHNIKOV, N.N., prof., otv. red.; BOLDYREV, T.I.,
prof., red.; ZASUKHIN, D.N., doktor biol. nauk, red.;
KALINA, G.P., red.

[Multivolume manual on the microbiology, clinical aspects
and epidemiology of communicable diseases] Mnogotomnoe ru-
kovodstvo po mikrobiologii, klinike i epidemiologii infek-
tsionnykh boleznoi. Moskva, Meditsina. Vol.5. 1965.
548 p. (MIRA 18:3)

1. Deystvitel'nyy chlen AMN SSSR (for Aleksanyan,
Gromashevskiy, Zhdanov, Zhukov-Verezhnikov). 2. Chlen-
korrespondent AMN SSSR (for Rogozin, Boldyrev).

FAVOROVA, L.A.; TKACHEVA, M.N.; BESEMERTNYY, B.S.; KOSTYUKOVA, N.N.;
PROKHOROVA, L.N.; MALAKHOVA, N.S.

Role of various sources of respiratory tract infections in closed
children's institutions (on a diphtheria model). Report No.1.

Zhur. mikrobiol., epid. i immun. 41 no.4:64-70 Ap '64.

(MIRA 18:4)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR
i Moskovskaya oblastnaya sanitarno-epidemiologicheskaya statsiya.

BESSMERTNYI, D.P., inzhener.

Harvesting block peat with TUMKAR machines. Mekh. trud. rab.
10 no.9:41 S '56. (MLRA 9:10)

(Peat machinery)

BESSMERTNYI, D. P.

Cand Tech Sci - (diss) "Investigation of apparatus of the vertical boring type for harvesting kuskovyy peat. Moscow, 1961. 18 pp; with diagrams; (Ministry of Higher and Secondary Specialist Education RSFSR, Kalinin Peat Inst); 180 copies; price not given; (KL, 6-61 sup, 213)

BESPALOV, B., podpolkovnik; BESSMERTNYI, I., ^Amayor.

"Collection of problems in military topography." N.M. Moshayev.
Reviewed by B. Beshpalov and I. Bessmertnyi. Voen.vest. 36 no.7:
91-93 J1 '56. (MLRA 9:8)

(Military topography)
(Moshayev, N.M.)

HESSMERTNYI, I.A., mayor

Preparing artillery logarithmic disks. Artill. zhur. no.1:55-56
Ja '58. (MIRA 11:2)
(Fire control (Gunnery--Equipment and supplies)

SERGEYEV, V., polkovnik; BESSMERTNYY, I.^A, podpolkovnik

Fifth edition of a manual on military topography ("Military topography" by I.A. Bubnov, A.I. Kremp, S.I. Polimonov. Reviewed by V. Sergeev). Voen. vest. 39 no.9:91-95 S '59.

(MIRA 12:12)

(Military topography) (Bubnov, I.A.) (Kremp, A.I.)
(Polimonov, S.I.)

BESSMERTNYI, I.^A podpolkovnik

Target location from a single observation post. Voenn. vest. 39
no. 12:66-69 D '59. (MIRA 13:6)
(Range finding)

BESSMERTNYY, I.R.; SEROVATIN, A.I.

Improve the quality of sheet steel. Met. i gornorud. prom.
no.2:82-83 Mr-Ap '65. (MIRA 18:5)

BESSMENTNY, I.R.

Losses from rejected material at metallurgical plants.

Met. i gornorud. prom. no.6:8-10 N-D '64.

(MIRA 18:3)

BEESMERTNYI, I. S. ENGINEER

Cand Tech Sci

Dissertation: "Method for Investigation of the Voltage Trend in Calculating Municipal Electric Networks".

24 June 49

Moscow Order of Lenin Power Engineering Inst
imeni V. M. Molotov

60 Vecheryaya Moskva
Sum 71

BESSMERTNYI, I. S.

USSR/Electricity Electrical Standards Voltage

May 49

"Comments on A. A. Glazunov and S. A. Gelikonskiy's Article, 'Improved Scale of Standard Voltages in the 10-220 Kilovolt Range,'" Prof S. A. Burguchev, M. M. Lebedev, Engr, I. S. Bessmertnyy, Engr, Ya. M. Bol'sham, Engr, G. S. Pliss, Cand Tech Sci, 3 pp

"Elektrichestvo" No 5

Burguchev believes authors are not free from usual errors prevalent in analysis of intermediate (10-35 kv) systems (primarily for rural areas), i.e., lack of concrete examples or comparisons. But article is very valuable theoretically. Considers further investigations necessary before changes can be justified. Lebedev has no objections to author's conclusions on 154 kv, but sees no factual basis in article for excluding other possibilities. Considers article valuable as first stage in program for organizations concerned. Agrees that 20-kv standard is desirable for rural electrification. Bessmertnyy states that article does not take into account developmental aspects of existing 6-kv municipal networks; therefore, 20-kv standard requires further analysis. Pliss notes that authors' chief variation from 1941 approved standards is 154 kv. Recommends that "Elektrichestvo" publish full project on standards developed by Min of Elec Power Plants, and then draw conclusions (continued in "Elektrichestvo," No 6, 1949).

PA 55/49T34

S.A.
Sect. B

Illustration

621.316.1

1988. The lay-out and design characteristics of urban power systems. I. S. Buzanitskiy, *Elektrichestvo*, No. 10, 6-14 (Oct., 1951) in Russian.

Comparative data are presented on systems calculated from recommended voltage drops and from economic current densities. It is shown that the latter method yields improvements in conductor metal outlay and in the power losses. It is suggested that the existing "Instructions and recommendations for planning power systems" be redrafted on the basis of prescribed voltage losses and minimum conductor metal requirements. Economic factors should take first place wherever possible and generalized values of distribution coefficients and "balanced" values of the current densities should be used.

B. F. KRAUS

FA ZIRTEL

USSR/Electricity - Distributions Systems Dec 52

"Basic Elements in the Construction of Circuits for City Electric Power Networks," Dr Tech Sci, A. A. Glazunov, Cand Tech Sci, I. S. Bessmertnyy, and Eng F. F. Vorontsov, Moscow

"Elektrichestvo" No 12, pp 3-8

Examines modern circuits for low-voltage city power networks, giving eng characteristics and proposing classification and designations. Shows what automated, duplicate-service, high-voltage network with open-circuit low-voltage network costs 20-25% more in

242T21

capital and operating expenditures than closed networks. Article is intended to stimulate discussion in connection with revision of "Instructions on Planning City Electric Power Networks". Submitted 19 Jun 52.

BES. MARTNY. I. S.

242T21

BESSMERTNYI, I. S.

Electric Engineering - Periodicals

Changing the coverage of articles, Elektrichestvo No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1921. 10. 11. 1921.

AID P - 4132

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 19/33

Author : Bessmertnyy, I. S., Kand. Tech. Sci., Moscow

Title : Technical and economic calculation of city cable networks. (Discussion of the article of V. A. Kozlov, this journal, No. 11, 1954).

Periodical : Elektrichestvo, 12, 68-69, D 1955

Abstract : The author states that all formulas submitted until the present for the determination of the most convenient characteristic values or parameters of city networks, and in particular for the selection of the capacity of network transformer substations are based on numerous assumptions that are often not justified by contemporary tendencies in the field of methods of technical and economic calculation. He is of the opinion that V. A. Kozlov's suggestions deserve serious attention and he welcomes his initiative, despite the

Elektrichestvo, 12, 68-69, D 1955

AID P - 4132

Card 2/2 Pub. 27 - 19/33

many inaccurate assumptions. Unfortunately, V. A. Kozlov deviated considerably from his originally-planned method of calculation and thus seriously impaired the validity of his final conclusions. The author then goes into some technical discussions of certain details of the article and suggests a reworking of the proposed method. One diagram.

Institution : None

Submitted : No date

Bessmertnyy, I.S.

112-2-3112

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 2, p. 84 (USSR)

AUTHOR: Bessmertnyy, I.S.

TITLE: Some Economic Considerations Affecting the Construction of Electric-Power Distribution Networks (Nekotoryye ekonomicheskiye usloviya postroyeniya raspredelitel'nykh elektrosetey)

PERIODICAL: In sbornik: Vopr. postroyeniya gor. elektr. setey. Moscow, M-vo-kommun. kh-va RSFSR, 1956, pp. 73-110

ABSTRACT: At the present time there are three tendencies in the construction of city distributing networks. The most prevalent is the use of 6-to 10-kv normally-open circuit loop lines in conjunction with low voltage radial, ring or series-connected network systems. Uninterrupted power supply can be ensured by using automatic reclosing and automatic re-opening on the high voltage (HV) side or by remote control. Another method is based on the utilization of low voltage (LV) parallel or multiple-series-connected networks fed through versed-power automatic switches. In this case the high voltage (HV) system is a radial network, the simplest system. Reserve power supply to directly-connected consumers is ensured entirely or in part by the low voltage (LV) network. This tendency is also prevalent in the case of

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2-loop network systems. In areas of low, rural-type construction a HV network of the simplest configuration can be used with small pole-mounted transformer points connected with the HV line by a dead-end tap. The low voltage system can be a series connected network. This solution, which has found wide application in foreign practice, assumes the utilization of special, low-power transformers equipped with protective devices and automatic switches, all in one complete, factory made assembly. In view of the fact that Soviet industry does not produce such transformers, the advantages of such installations cannot be enjoyed in the USSR. For urban networks in the USSR, 180 and 320 kva is the optimal power for enclosed transformer points. The margin of choice between these two capacities lies in the load-density range of 75 - 100 kw/km. 100-kva transformers are suitable for pole-mounted transformer points. Fifty-kva transformers can be used for pole mounting only when steel conductors are used in the network or when the load densities are of the order of 10kw/km and lower. The application of symmetry conditions, which depend on the shape of low voltage network, can be an aid in finding an economically advantageous electrical network system. For branched networks, the best system can be determined theoretically, taking as the point of departure the condition of equal cost of the transformer point and of the low-voltage network. For the simplest nonbranched network system, the capital investment in the transformer point must, in theory, be twice that for the low voltage network. In practice, the

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minimum total capital investments usually correspond to a ratio of the costs
of the transformer point and the low-voltage network which lies between 1
and 2.
Ya.M.P.

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GLANTS, Yu.A., inzh.; FINGER, L.M., inzh.; NIKOGOSOV, S.N., kand. tekhn. nauk (Leningrad); MEDVEDSKIY, N.I., inzh. (Leningrad); VOLOTSKOY, N.V., kand. tekhn. nauk; BESSMERTNIY, I.S., kand. tekhn. nauk (Moskva); VORONTSOV, F.F., kand. tekhn. nauk (Moskva).

Urgent problems relative to the theory of urban power networks.
Elektrichestvo no.12:73-78 D '56. (MIRA 11:3)

1. Khar'kovskoye otdeleniy Teploelektroproyekta (for Glants).
 2. Giprokommunenergo (for Finger).
 3. Lengiprogor (for Medvedskiy).
 4. Lenproyekt (for Volotskoy).
- (Electric networks) (Electric power distribution)

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E194/E484

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TITLE: The quality of electric power and voltage control in
urban distribution systems

PERIODICAL: Elektrichestvo, no.10, 1962, 21-26

TEXT: Published work on assessment of permissible voltage variations at the terminals of consumers in urban supply networks is reviewed. None of the existing criteria of power quality is considered entirely satisfactory but methods based on the statistical probability of the voltage remaining within certain limits are to be preferred in both system operation and design. A method is described for plotting graphs of voltage variation with time and position in the system, and of the resultant power distribution in a system with mixed industrial and domestic load, i.e. the proportion of the total power which, with a given probability, falls within given limits of voltage variation. A criterion of power quality can be read directly from these graphs using relative values of the mean voltage drop and of the standard deviation of voltage drop. The procedure to be adopted
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